PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

KRISTINA BIEKER-BRADY CLARK & ELBING LLP 101 FEDERAL STREET BOSTON, MA 02110

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND

REVIEWED BY FOREIGN FILING DEPT	THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1) Date of mailing
Applicant's or agent's file reference	(day/month/year) 19 SEP 2005
01948/098WO2	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US04/38865	International filing date (day/month/year) 19 November 2004 (19.11.2004)
Applicant BETH ISRAEL DEACONESS MEDICAL CENTER	
have been established and are transmitted herewith. Filing of amendments and statement under Article 15 The applicant is entitled, if he so wishes, to amend the ci When? The time limit for filing such amendments i	
search report. Where? Directly to the International Bureau of WIF	20.34 chemin des Colombeties ACTION DUE Of Articles
1211 Geneva 20, Switzerland, Facsimile No	
For more detailed instructions, see the notes on the	accompanying sheet. INITIALS THE PROPERTY WILL BE SHEET THE SHEE
the protest together with the decision thereon has be request to forward the texts of both the protest and no decision has been made yet on the protest; the applicant wishes to avoid or postpone publication claim, must reach the International Bureau as provided in Rules preparations for international publication. The applicant may submit comments on an informal basis of International Bureau. The International Bureau will send a compreliminary examination report has been or is to be established before the expiration of 30 months from the priority date. Within 19 months from the priority date, but only in respect examination must be filed if the applicant wishes to postpone the some Offices even later); otherwise, the applicant must, within into the national phase before those designated Offices. In respect of other designated Offices, the time limit of 30 months.	the International Searching Authority are transmitted herewith. ditional fee(s) under Rule 40.2, the applicant is notified that: seen transmitted to the International Bureau together with the applicant's the decision thereon to the designated Offices. pplicant will be notified as soon as a decision is made. ate, the international application will be published by the International a, a notice of withdrawal of the international application, or-of the priority a 90bis.1 and 90bis.3, respectively, before the completion of the technical on the written opinion of the International Searching Authority to the pay of such comments to all designated Offices unless an international d. These comments would also be made available to the public but not set of some designated Offices, a demand for international preliminary is entry into the national phase until 30 months from the priority date (in 20 months from the priority date, perform the prescribed acts for entry into the lational phase until 30 months from the priority date (in 20 months from the priority date, perform the prescribed acts for entry into the lations, Office by Office, see the PCT Applicant's Guide,
Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Authorized office Mua Walson Marianne DiBrino, Ph.D. Telephone No. 571-272-1600
Form PCT/ISA/220 (January 2004)	(See notes on accompanying sheet)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 01948/098WO2	FOR FURTHER ACTION		form PCT/ISA/220 e applicable, item 5 below		
International application No. PCT/US04/38865	International filing date (day 19 November 2004 (19.11.2		(Earliest) Priority Date (day/month/year) 19 November 2003 (19.11.2003)		
Applicant BETH ISRAEL DEACONESS MEDICAL	Applicant BETH ISRAEL DEACONESS MEDICAL CENTER				
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of					
 Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 					
The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).					
b. With regard to any nucleoti	de and/or amino acid sequer	ice disclosed in t	the international application, see Box No. I.		
	unsearchable (See Box No.	II)			
3. Unity of invention is lacking	ıg (See Box No. III)				
4. With regard to the title, the text is approved as subm	sitted by the applicant				
	-	ollows:			
ine text has been established	l by this Authority to read as f	onows.			
	•				
		•			
5. With regard to the abstract,	24-11-1-1-1				
the text is approved as subm					
			as it appears in Box No. IV. The applicant a report, submit comments to this Authority.		
6. With regard to the drawings,					
a. the figure of the drawings to be		Figure No	-		
as suggested by the					
	Authority, because the applica-		_		
as selected by this Authority, because this figure better characterizes the invention.					
b. None of the figures is to be published with the abstract.					

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

			PC1/US04/38865	
A. CLAS	SSIFICATION OF SUBJECT MATTER			
IPC(7) : A61K 39/00, 45/00, 14/00				
USCL	424/185.1, 278.1; 514/350			
According to	International Patent Classification (IPC) or to both n	ational classification and	IPC	
	DS SEARCHED			
		1 1 6		
	ocumentation searched (classification system followed	by classification symbol	s)	
U.S. : 42	24/185.1, 278.1; 514/350	•		
D (4)	1 1 1 21 21 22 2 2 2 2 2 2 2 2 2 2 2 2			
Documentation	on searched other than minimum documentation to th	e extent that such docum	ents are included	in the fields searched
Electronic da	ta base consulted during the international search (nar	ne of data base and, whe	re practicable, sea	rch terms used)
Please See C	ontinuation Sheet			
G 70.00	IR COURT CONTRIBUTION TO DE DEL TRUIT		·	
	UMENTS CONSIDERED TO BE RELEVANT		···	· · · · · · · · · · · · · · · · · · ·
Category *	Citation of document, with indication, where a	appropriate, of the releva	nt passages	Relevant to claim No.
X	WO 02/36141 A2 (LYNCH et al) 10 May 2002, see	entire document.		1-27, 29-35, 37, 39-46,
				49-55 and 60-64
Y	US 6,433,147 B1 (NI et al). 13 August 2002 (13.08	3.2002), see entire docum	nent	1-64
_		, 500 0110110 0000111		101
Y	US 5,846,827 A (CELIS et al) 08 December 1998 (08 12 1008) see entire d	noument	1-64
^	05 5,540,527 11 (GEEDIS et al) 00 December 1558 (00.12.1770), SOC CHINC U	ocument.	1-04
			,	
				l
		•	İ	
			,	
Further	documents are listed in the continuation of Box C.	See patent fa	mily annex.	
* St	pecial categories of cited documents:			ational filing date or priority date
-,	The party of the destination			ut cited to understand the
	defining the general state of the art which is not considered to be of		ry underlying the inventi	
particular	relevance	"X" document of par	timulan unlan munau tha ala	imad instantian annual ba
"B" earlier app	plication or patent published on or after the international filing date			irned invention cannot be I to involve an inventive step
			nent is taken alone	
	which may throw doubts on priority claim(s) or which is cited to	#3771 1 C		
specified)	he publication date of another citation or other special reason (as			imed invention cannot be when the document is combined
				such combination being obvious
"O" document	referring to an oral disclosure, use, exhibition or other means	to a person skill		
"P" document	published prior to the international filing date but later than the	"&" document memb		
priority da		& Goddinen dein	per of the same patent far	mny .
		1		
Date of the ac	ctual completion of the international search	Date of mailing of the	international searc	h report
10 In 2005	(10.06.2005)	Date of mailing of the	a off the	
	(10.06.2005)		7777	
	ulling address of the ISA/US	Authorized officer	100UL [Walow
	l Stop PCT, Attn: ISA/US	Chan Y Christina	'	
	missioner for Patents Box 1450			
	tandria, Virginia 22313-1450	Maname DiBnis Telephone No. 703-30	8-0196	
	. (703) 305-3230	,		
		i		

	International application No.
INTERNATIONAL SEARCH REPORT	PCT/US04/38865
	•
	•
·	
Continuation of B. FIELDS SEARCHED Item 3:	
WEST 2.2.2, STN(EMBASE, BIOSIS, MEDLINE, CAPLUS, SCISEARCH, PRON	MT, BIOBUSINESS)
search terms: inventors' names, mip-1a, mip-1 alpha, protein-1 alpha, mip-3a, mip-	3 alpha, protein-3 alpha, fins-related protein tyrosine
kinase 3 ligand, flt3l, cancer, tumor, autoimmune, immunogen, antigen, treat.	
,	
	4

Form PCT/ISA/210 (extra sheet) (January 2004)

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHIN	· NG AUTHORITY		
To: KRISTINA BIEKER-BRADY CLARK & ELBING LLP 101 FEDERAL STREET BOSTON, MA 02110			PCT RITTEN OPINION OF THE
		INTERNATI	ONAL SEARCHING AUTHORITY
			(PCT Rule 43bis.1)
		Date of mailing (day/month/year)	1 9 SEP 20119
Applicant's or agent's file refer	rence	FOR FURTHER	ACTION See paragraph 2 below
01948/098WO2 International application No.	International filing	date (day/month/year)	Priority date (day/month/year)
PCT/US04/38865 International Patent Classification	ion (IPC) or both national class		19 November 2003 (19.11.2003)
IPC(7): A61K 39/00, 45/00, 14	` ,		
Applicant Applicant	700 and OS CI., 424/165.1, 27	6.1, 314/330	
BETH ISRAEL DEACONESS	MEDICAL CENTER	•	
			D. Olah
1. This opinion contains indic	cations relating to the following	g items: ACT	ON DUE POPUL
Box No. 1 B	Basis of the opinion		DATE 12.19.05
Box No. II P	riority	INIT	IALS
Box No. III N	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		
Box No. IV L	Box No. IV Lack of unity of invention		
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
Box No. VI C	ertain documents cited		
Box No. VII C	ertain defects in the internation	al application	
Box No. VIII C	ertain observations on the inter	mational application	
2. FURTHER ACTION			
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.			
of Form PCT/ISA/220 or b	her, where appropriate, with a sefore the expiration of 22 mon	mendments, before the exp	PEA, the applicant is invited to submit to the piration of 3 months from the date of mailing whichever expires later.
For further options, see For	rm PCT/ISA/220.		
3. For further details, see note	es to Form PCT/ISA/220.		
Name and mailing address Cit	- IC A / I IC	Australia	100
Name and mailing address of the Mail Stop PCT, Attn: ISA Commissioner for Patent	A/US	Authorized officer Marianne DiBrine	D, Ph.D. Mary J Walson
P.O. Box 1450 Alexandria, Virginia 223 Faccincile No. (702) 205 2220	13-1450	Telephone No. 57	11-272-1600

Facsimile No. (703) 305-3230
Form PCT/ISA/237 (cover sheet) (January 2004)

International application No.

PCT/US04/38865

Box No. I Basis of	his opinion
With regard to the la was filed, unless oth	nguage, this opinion has been established on the basis of the international application in the language in which rwise indicated under this item.
This opinion l	as been established on the basis of a translation from the original language into the following language, anguage of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
With regard to any n invention, this opinion	ucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed n has been established on the basis of:
a. type of mater	al
a seque	nce listing
table(s)	related to the sequence listing
b. format of mat	zial
in writte	en format
in comp	uter readable form
c. time of filing	furnishing
contains	d in international application as filed.
filed tog	ether with the international application in computer readable form.
furnishe	d subsequently to this Authority for the purposes of search.
or furnished,	the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed he required statements that the information in the subsequent or additional copies is identical to that in the filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments	
	·
-	
Form PCT/ISA/237(Box N	o. I) (January 2004)

Form PCT/ISA/237 (Box No. V) (January 2004)

International application No. PCT/US04/38865

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1. Statement			
Novelty (N)		28, 36, 38, 47, 48, 56-59 1-27, 29-35, 37, 39-46, 49-55, 60-64	YES NO
Inventive step (IS)		NONE	YES
	Claims	1-64	NO
Industrial applicability (IA)	Claims Claims	<u>1-64</u> <u>NONE</u>	YES NO
Citations and explanations: Please See Continuation Sheet			
Please See Communition Sheet			
·			
		•	

International application No.

PCT/US04/38865

Box No. VIII	Certain observations on the international application	_	

The following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:

Claim 28 objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claim 28 is indefinite for the following reason(s): Claim 28 recites "said antigen" in line 1. There is insufficient antecedent basis for this limitation in the said claim.

Form PCT/ISA/237 (Box No. VIII) (January 2004)

International application No. PCT/US04/38865

Supplemental Box	
In case the space in any of the preceding boxes is not sufficient	

V. 2. Citations and Explanations:

Claims 1-27, 29-35, 37, 39-46, 49-55, 60-64 lack novelty under PCT Article 33(2) as being anticipated by WO 02/36141 A2.

WO 02/36141 A2 teaches administering a combination of from two to five agents from the following: those that mobilize dendritic cells, stimulate maturation of dendritic cells, enhance an immune response of an effector T cell, or agents that cause death or growth inhibition of infectious agents (especially abstract). WO 02/36141 A2 teaches that induction of cell-mediated immune responses requires the interaction of at least three different types of cells: dendritic cells (DC), CD4+ Th cells and CD8+ effector T cells, or CTL (especially page 1 at paragraph 3). WO 02/36141 A2 teaches that an agent or more than one agent is administered to an individual human including an infant afflicted with or at risk for a condition characterized by the presence of a pathogenic or opportunistic organism(s), said agent being a DC mobilization factor such as human or murine Flt3L or biologically active fragments thereof and/or GM-CSF, a chemoattractant(s) to attract the mobilized DC such as MIP-1a and/or MIP-3a, along with one or more antigens, said antigens may be HIV antigens, other viral antigens, bacteria, yeast, fungi and protozoa, or viruses that cause cancer or demyelinating autoimmune diseases. WO 02/36141 A2 teaches that the various agents may be administered locally in or near a site of infection or systemically. WO 02/36141 A2 teaches that the agents may be administered to humans in a variety of administration forms and dosages or by using vectors or naked DNA in gene therapy techniques. WO 02/36141 A2 teaches optionally administering a second anti-microbial or antiviral therapy. WO 02/36141 A2 teaches administering a second therapeutic regimen within 1 to 25 days after the first. WO 02/36141 A2 teaches that those of ordinary skill in the art are able to optimize the order and/or timing of the steps, as well as the dosages and routes of administration by routine experimentation (especially page 2 at the first two paragraphs, page 10 at paragraph 2, page 11 at paragraphs 1 and 3, page 18 at paragraphs 2 and 3, pages 20-23, claims, Figure 1, page 5 at paragraph 1, pages 6-page 9 at paragraph 2).

Claims 7, 8 and 60 are included in this rejection because the art method appears to be the same or similar absent a showing of unobvious differences, i.e., with respect to the degree of augmentation of the T cell response recited in the said claims. Claim 18 is included in this rejection because injection into the same injection site meets the claim limitation of "within no more than 20 cm apart".

Claim 27 and 37 are included in this rejection because the antigen is the same antigen present in the infection or the tumor. Claim 21 is included because the art method inherently prevents viral transmission in an infant that is breastfeeding. Claim 39 is included in this rejection because the art method appears to be the same or similar to the claimed method since the method improves immune response, less vaccine would be required.

Claims 1-64 lack an inventive step under PCT Article 33(3) as being obvious over WO 02/36141 A2 in view of US 6,433,147 B1 and US 5,846,827 A.

WO 02/36141 A2 teaches administering a combination of from two to five agents from the following: those that mobilize dendritic cells, stimulate maturation of dendritic cells, enhance an immune response of an effector T cell, or agents that cause death or growth inhibition of infectious agents (especially abstract). WO 02/36141 A2 teaches that induction of cell-mediated immune responses requires the interaction of at least three different types of cells: dendritic cells (DC), CD4+ Th cells and CD8+ effector T cells, or CTL (especially page 1 at paragraph 3). WO 02/36141 A2 teaches that an agent or more than one agent is administered to an individual human including

Form PCT/ISA/237 (Supplemental Box) (January 2004)

International application No. PCT/US04/38865

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

an infant afflicted with or at risk for a condition characterized by the presence of a pathogenic or opportunistic organism(s), said agent being a DC mobilization factor such as human or murine Flt3L or biologically active fragments thereof and/or GM-CSF, a chemoattractant(s) to attract the mobilized DC such as MIP-1a and/or MIP-3a, along with one or more antigens, said antigens may be HIV antigens, other viral antigens, bacteria, yeast, fungi and protozoa, or viruses that cause cancer or demyelinating autoimmune diseases. WO 02/36141 A2 teaches that the various agents may be administered locally in or near a site of infection or systemically. WO 02/36141 A2 teaches that the agents may be administered to humans in a variety of administration forms and dosages or by using vectors or naked DNA in gene therapy techniques. WO 02/36141 A2 teaches optionally administering a second anti-microbial or anti-viral therapy. WO 02/36141 A2 teaches administering a second therapeutic regimen within 1 to 25 days after the first. WO 02/36141 A2 teaches that those of ordinary skill in the art are able to optimize the order and/or timing of the steps, as well as the dosages and routes of administration by routine experimentation (especially page 2 at the first two paragraphs, page 10 at paragraph 2, page 11 at paragraphs 1 and 3, page 18 at paragraphs 2 and 3, pages 20-23, claims, Figure 1, page 5 at paragraph 1, pages 6-page 9 at paragraph 2).

WO 02/36141 A2 does not teach wherein viral vector is adenovirus or a poxvirus or fowl poxvirus, nor wherein at least 0.2 ug of vector is provided, nor wherein the antigen is an immunogenic peptide from HIV pol, nor wherein the cancer is melanoma, nor wherein the antigen is from MAGE-3.

US 6,433,147 B1 discloses using viral vectors comprising promoters such as adenovirus, fowl pox viruses or pox viruses in general for expression of polypeptides, in mammalian host cells, or alternately, use of naked DNA or RNA encoding a polypeptide in the dosage of from about 0.05 ug/kg body weight(especially columns 32-34, Example 28).

US 5,846,827 A discloses immunogenic peptides from HIV pol and MAGE-3 expressed on melanoma cancer cells

It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to have used a viral vector that is adenovirus or a poxvirus or fowl poxvirus as disclosed in US 6,433,147 B1 as the vector taught in the method of WO 02/36141 A2.

One of ordinary skill in the art at the time the invention was made would have been motivated to do this in because WO 02/36141 A2 teaches using a vector for nucleic acid administration in the method and US 6,433,147 B1 discloses suitable vectors for expression of polypeptides in mammalian cells.

Claims 48 and 59 are included in this rejection because it would have been obvious to use at least the same amount of vector comprising DNA as the amount disclosed by US 6,433,147 B1 for naked DNA administration because the vector comprising DNA has less DNA per dosage weight than does naked DNA.

It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to have used an immunogen from HIV pol antigen disclosed by US 5,846,827 A to treat viral infection such as HIV taught by WO 02/36141 A2, or the MAGE-3 immunogenic peptide to treat melanoma disclosed by US 5,846,827 using the method taught by WO 02/36141 A2, but rather to treat cancer that is non-virally induced.

One of ordinary skill in the art at the time the invention was made would have been motivated to do this in order to enhance an immune response in HIV infection or cancer, because WO 02/36141 A2 teaches a method for enhancing immune response in cancer or viral infection comprising administering immunogenic peptides, and US 5,846,827 A discloses immunogenic peptides from HIV pol and MAGE-3 expressed on melanoma cancer cells.

Claims 1-64 meet the criteria set out in PCT Article 33(4), and thus meet industrial applicability because the subject matter claimed can be made or used in industry.

NOTESTOFORM PCT/ISA/220

These Noies are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to Sle the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Scarching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims by adding one or more new claims or by amending the text of one or more of the claims as filed

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is can: elled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged:
- (ii) the claim is cancelled
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where ongineally there were 48 claims and after amendment of some claims there are 51]: "Claims I to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers, claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims I to 15 replaced by amended claims I to 11"
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in "Claims I to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- "Claims 1-10 cmchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended [Where various kinds of amendments are made]: claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the Language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submutted; the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the dermand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's amention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated elected Office, see the PCT Applicant's Guide, Volume II.